



PATENT ABSTRACTS OF JAPAN

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G01N 33/566(21) Application number: **11051080**(22) Date of filing: **26.02.1999**(71) Applicant: **HOKUTO KAGAKU SANGYO KK**
IATRON LAB INC(72) Inventor: **TAMIYA EIICHI****(54) NEW BIOLOGICAL CHIP AND ANALYTICAL METHOD****(57) Abstract:**

PROBLEM TO BE SOLVED: To easily select a probe according to an analytic purpose and to improve reactive sensitivity by containing insoluble grains inserted into a plurality of recesses of an insoluble carrier provided with the recesses separated from each other on a flat surface and bound with a partner material capable of being peculiarly bound with a target material on the surface.

SOLUTION: This biological chip 1 includes an insoluble carrier plate 2 and insoluble grains inserted into a plurality of recesses 21 provided on one flat surface 22 of the carrier plate 2. A plurality of recesses 21 are separately arranged in an aligned state in the vertical

direction and horizontal direction on the flat surface of the carrier plate 2. A partner material peculiarly bound with a target material is carried on the surface of the insoluble grains. An organic or inorganic material insoluble in water or an organic solvent in the nucleic acid hybridization assay or immunological assay, e.g. silicone or glass, is preferably used for the insoluble carrier.

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